SBI3U Sex-Linkage Handout Name:

A male with haemophilia (XhY) marries a woman who does not carry the haemophiliac gene (XHXH). Use a punnett square to answer (a) and (b).

1. What is the probability of producing sons or daughters who have hemophilia?
2. What is the probability of producing daughters who are carriers of the haemophiliac allele?

Hairy ears is a rare condition that is sex-linked. Let H be the dominant allele (non-hairy ears) and h be the recessive allele (hairy ears).

1. Examine the pedigree chart below. Determine if the condition is X-linked of Y-linked.
2. Label all possible genotypes.